

## Water and Wastewater Refresher Courses – Fall 2020

Red River College (RRC) is offering a full suite of Class 1 & 2 certification exam preparation courses in the fall of 2020.

### Interactive Alternative Delivery Courses

As a result of Covid-19, all 2020 fall session courses will only be offered by interactive alternative delivery. This adaptive delivery will be online through RRC's learning management system (LEARN), entailing approximately 80 % voice over PowerPoint presentations and video resources, and 20 % interactive sessions through WebEx with the course instructor. All participants are required to have access to a computer and high speed internet from 8:00 am – 4:00 pm for each day of the course time frames, as outlined below. As with our face to face courses, some self study is required outside these time frames. **Course costs have been reduced as a result of the change in delivery format to reflect the move off campus to remote delivery.** Access to the material on LEARN will be available for 3 weeks past the course finish date, as exams do not always directly follow the course. **\*\* The CEU's credited from MB Sustainable Development are the same as for RRC's existing face to face training.**

The associated certification exams (No exam for Foundations course) are available to be written in person at 215 Garry Street, Winnipeg (Ricoh Plaza), on a variety of dates outlined below. **The listed fees are for the RRC course only; you must register for the exam separately thru MB Sustainable Development.**

**Course Registration / Information:** please contact [techsolutions@rrc.ca](mailto:techsolutions@rrc.ca)

**CANCELLATION POLICY:** Students who cancel their registration less than 8 days before the start of the course will be charged a \$50.00 fee.

### **Certification Exam Registration; Please Read!**

RRC Certification Preparation Course fees **do not include the exam cost.** The certification exams are administered by Manitoba Sustainable Development (SD); not RRC. **It is the course participant's responsibility to register & pay for the exam (On-line payment available) no later than 14 days prior to the exam date.** Information & exam registration forms are available thru the link: [https://www.gov.mb.ca/sd/eal/certification/exam\\_registration.pdf](https://www.gov.mb.ca/sd/eal/certification/exam_registration.pdf) . For more information, please contact Donna Garcia at (204) 945-7065 or [Donna.Garcia@gov.mb.ca](mailto:Donna.Garcia@gov.mb.ca) .

### **Exam Dates; 2 sessions daily ( 8:30 AM & 1 PM )**

**Sep. 25, Oct. 2, Oct .19, Nov 6, Nov. 16, & Dec. 18, 2020**

### **Water and Wastewater Foundations (Course Code: WATR-1007 and ID 206328)**

Five-day course: **September 14 - 18, 2020**

Fee: \$995.00 Registration deadline: **September 4, 2020**

This introductory course covers the foundational skills and knowledge operators require for success when writing ABC certification exams. This course is **recommended, but optional**, prior to taking a Class 1 certification exam preparation course. Industry related Math and Science (chemistry, microbiology, hydraulics and electricity), Safety / Administration / Management, and Equipment / Support systems are all gone over in detail, relative to certification exam requirements.

**Who should take the Foundations Course?** RRC has developed a diagnostic quiz designed to objectively assess an individual's fundamental skill set that will be required for effective participation in a Certification Exam Preparation Course. **All individuals that have not taken the Foundations Course in the past or have not successfully passed a Water and Wastewater Certification exam should complete the quiz.** To acquire a copy of the diagnostics quiz, please contact Patricia Oleksiew at (204) 632-3017 or [poleksiew@rrc.ca](mailto:poleksiew@rrc.ca) .

### **Water Treatment I (Course Code: CONF-1077 and ID 206358)**

Four-day course: **September 21 – 24, 2020**

Fee: \$805.00 Registration deadline: **September 11, 2020** Exam Date: **register with MB Sustainable Development**

This course is intended as preparation for the Manitoba Water Treatment Class I Certification Exam. Topics include: A **brief** review of Foundations material, Hydrologic cycle, Ground water systems, Water quality parameters / guidelines & regulations, Conventional Treatment, Slow sand filtration, Fluoridation, Iron & Manganese removal, Scaling & Corrosion, Taste & Odor control, Disinfection / Chlorination, Testing / Sampling, & Water Treatment mathematical calculations.

### **Water Distribution I & II (Course Code: WATR-1010 and ID 206460)**

Four-day course: **September 28 – October 1, 2020**

Fee: \$805.00 Registration deadline: **September 18, 2020** Exam Date: **register with MB Sustainable Development**

This course is intended as preparation for the Manitoba Water Distribution Class I or Class II Certification Exams. Topics include: A **brief** review of Foundations material, Hydrologic cycle, Ground water, Distribution system purpose / design, Piping / Trenching / Bedding, Scaling & Corrosion, Cathodic protection, Hydrants / Valves / Service connections / Meters, Cross connection / Backflow prevention, Chlorination, Testing / Sampling, & Water Distribution mathematical calculations.

### **Wastewater Collection I & II (Course Code: WATR-1003 and ID 206466)**

Four-day course: **October 13 – 16, 2020** (No class on Oct 12<sup>th</sup>)

Fee: \$805.00 Registration deadline: **October 2, 2020** Exam Date: **register with MB Sustainable Development**

This course is intended as preparation for the Manitoba Wastewater Collection Class I or Class II Certification Exams. Topics include: A **brief** review of Foundations material, WW characteristics, Collection system purpose / design, Piping / Trenching / Bedding, Odor & Corrosion control, Manholes / Lift stations, Cross connection / Backflow prevention, Pipe inspection / cleaning / rehabilitation, Chlorination, Testing / Sampling, & Wastewater Collection mathematical calculations.

### **Wastewater Treatment I (Course Code: CONF-1065 and ID 206469)**

Four-day course: **November 2 – 5, 2020**

Fee: \$805.00 Registration deadline: **October 23, 2020** Exam Date: **register with MB Sustainable Development**

This course is intended as preparation for the Manitoba Wastewater Treatment Class I Certification Exam. Topics include: A **brief** review of Foundations material, WW characteristics / parameters / guidelines, Wastewater stabilization pond design & maintenance; Mechanical treatment processes, Sludge handling, Odour control, UV / Chlorination, Testing / Sampling, & Wastewater treatment mathematical calculations.

### **Water Treatment II (Course Code: CONF-1089 and ID 206470)**

Four-day course: **November 9 – 13, 2020** (No class on Nov 11<sup>th</sup>)

Fee: \$805.00 Registration deadline: **October 30, 2020** Exam Date: **register with MB Sustainable Development**

This course is intended as preparation for the Manitoba Water Treatment Class II Certification Exam. Topics include: A very **brief** review of Foundations material, Surface water treatment systems, Water quality parameters / guidelines & regulations, Lime/soda ash softening, Ion exchange, Rapid sand filtration, Membrane filtration, Fluoride, Taste / odor control, Scaling / Corrosion, UV / Ozone / Chlorination disinfection, Testing / Sampling, & WT2 mathematical calculations.

### **Wastewater Treatment II (Course Code: CONF-1067 and ID 206472)**

Four-day course: **December 14 – 17, 2020**

Fee: \$805.00 Registration deadline: **December 4, 2020** Exam Date: **register with MB Sustainable Development**

This course is intended as preparation for the Manitoba Wastewater Treatment Class II Certification Exam. Topics include: A very **brief** review of Foundations material, WW characteristics / parameters / guidelines, Lagoons, Mechanical treatment processes, Sludge handling / digestion / dewatering / disposal, Odor control, UV / Chlorination, Lab equipment / Testing / Sampling, Nutrient removal, & Wastewater treatment 2 mathematical calculations.